

Electronic Plants

A multi-functional smart companion for users

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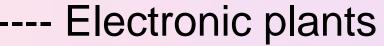
User needs and design requirement

- --- A questionnaire survey
- Animalis too noisy, need to walk them
- Young people tend to forget to water
- They want to integrate AI into plants

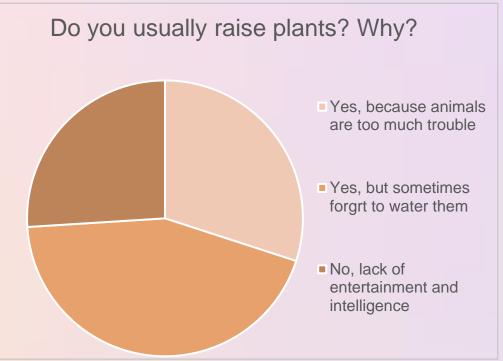








- Balance animails and plants well
- Easily interacted with animalis
- Add entertainment compared to traditional plants

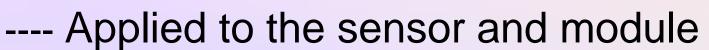




Hardware and software function

Hardware function

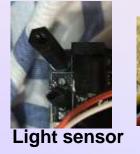
- Voice response function
- Touch Function(shock sensor)
- **Emotion display function**
- Light detection function
- Automatic watering function
- WI-FI function and temperature and humidity display function
- Clock display

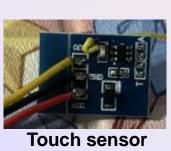


WIFI module Sound module Clock module Display module water pump















---- Software function

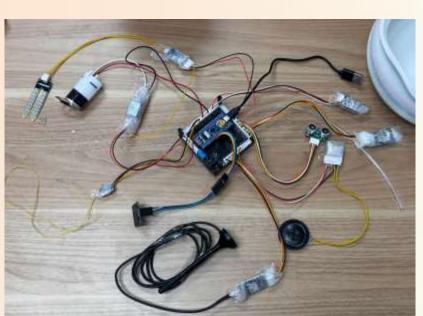
- systems and performance sensitive application development
- the distance reaches 20 centimeters, touch it
- touch more than 5 times, not to touch again.
- sitting at the table for an hour, get up and move around.

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User testing and feedback

---- Good experience and want to own it





---- Satisfied with the design of overall appearance and realization of functions

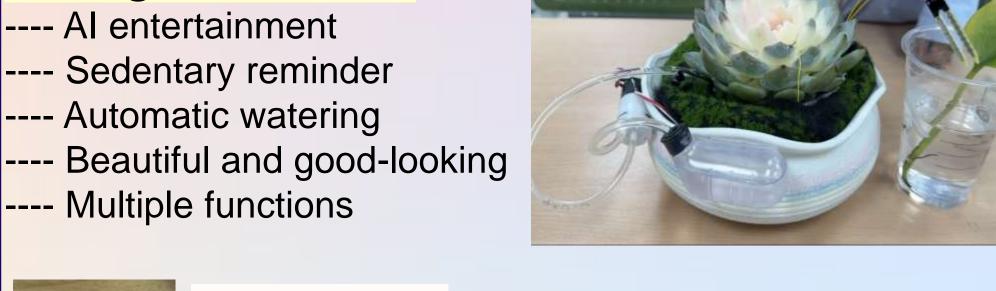
- Tester Chen said: I used this electronic plant product for the first time, which brought me a very novel experience. I would love to buy one to take home!
- Tester Liu said: This is really a great product! Not only looks good, but also has many functions!

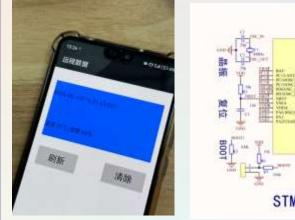


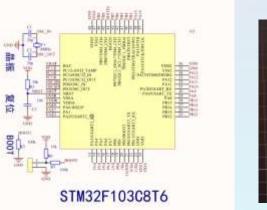


Design features

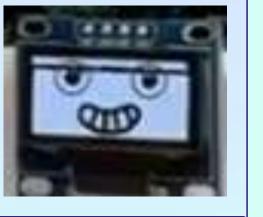
- ---- Automatic watering
- ---- Beautiful and good-looking











Contribution

Rui Fan	20%	Write report Part2 and Appendix section, integrate report. Edit functional part of video, integrate video. Determine the content of the poster. Make the PowerPoint.	
Liangrui He	20%	Presentation for the whole product, write about hardware and software of report, videos for taking and editing	
Ruijia Xi	20%	Participated in the manufacturing process of sensors and STM32 boards. Responsible for recording the meeting minutes and material sheets in the appendix of the Report. Responsible for the main editing of the functional part of the video assignment. Participated in the writing and recording of the sensor part of the poster.	
Jiayi Qi	20%	Write the abstract and introduction section of the report. Write the script for the video shoot. Responsible for poster design, layout and integration, as well as part of the content writing	
Zhicheng Jia	20%	Participate in product production and testing, Video editing and production, the Prototyping and Testing section of the report	

Conclusion and Future work

Electronic plants combine aesthetics and technology to provide a new plant care experience. Intelligent features include voice interaction, automatic watering and health alerts to meet user needs. The innovative design shows the perfect integration of technology and life, bringing convenience and comfort to users.

- ---- Future work
- Talk to the electronic plants
- Add the expressions on the OLED screen, and draw them in the apps

